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Design Capacity: 0.5 MGD

Type of Flow Measurement which the facility is currently using:

Totalizing Meter-Continuous Recorder

**V. RECEIVING WATERS:**

The discharge is into the Mississippi River in segment 070301 of the Mississippi River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 070301 of the Mississippi River Basin are as indicated in the table below<sup>1/</sup>:

Overall Degree of Support for Segment 070301	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Full	Full	Full	Full	N/A	Full	N/A	N/A

<sup>1/</sup>The designated uses and degree of support for Segment 070301 of the Mississippi River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Volume 5, Part B, Water Quality Inventory respectively.

**VI. ENDANGERED SPECIES:**

The receiving waterbody, Subsegment 070301 of the Mississippi River Basin, is listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish & Wildlife Service (FWS) as habitat for the Pallid sturgeon, which is listed federally as a threatened/endangered species. This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). A copy of the draft permit has been submitted to the FWS for review.

**VII. HISTORIC SITES:**

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in

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accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

**VIII. PUBLIC NOTICE:**

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the fact sheet. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

The public notice is published in a local paper of general circulation and the Office of Environmental Services Public Notice Mailing List.

For additional information contact:

Darlene Bernard  
Permits Division  
Department of Environmental Quality  
Office of Environmental Services  
PO Box 4313  
Baton Rouge, LA 70821-4313

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**IX. PROPOSED PERMIT LIMITS:**

**Final Effluent Limits:**

**OUTFALL 001**

Final effluent limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

<b>Effluent Characteristic</b>	<b>Monthly Avg. (lbs./day)</b>	<b>Monthly Avg.</b>	<b>Weekly Avg.</b>	<b>Basis</b>
BOD <sub>5</sub>	125	30 mg/l	45 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size discharging to the Mississippi River.
TSS	125	30 mg/l	45 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size discharging to the Mississippi River.

**Other Effluent Limitations:**

**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.a, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgment in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

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2) **pH**

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) **Solids and Foam**

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

**X. PREVIOUS PERMITS:**

<b>LPDES Permit No LA0044067:</b>	<b>Issued:</b>	June 21, 2002
	<b>Effective:</b>	July 1, 2002
	<b>Expired:</b>	June 30, 2007

**During the period beginning the effective date of the permit and lasting through the expiration date of the permit (Design 0.5 MGD)**

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Monthly Avg.</u>	<u>Weekly Avg.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
BOD <sub>5</sub>	30 mg/l	45 mg/l	1/week	3 Hr. Composite
TSS	30 mg/l	45 mg/l	1/week	3 Hr. Composite
Fecal Coliform	200	400	1/week	Grab
pH	6-9 Standard Units		1/week	Grab

**XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:**

**A) Inspections**

A review of EDMS indicates the following inspections were performed for this facility:

**Date – November 7, 2007**

**Findings and/or Violations:**

A Routine Compliance Inspection revealed facility records and reports appeared to be satisfactory. Facility appears to be maintained in a satisfactory manner. MWPP is 3 months from the audit report ending date.

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**Date – December 8, 2006**

**Findings and/or Violations:**

A Compliance Inspection Report revealed treatment plant was closed since Hurricane Katrina until late October, 2006. No discharge during that time. The effluent was evident on November 1, 2006. Permittee started monitoring on that day. The flow was estimated through December until a flow meter was installed.

**Date – February 3, 2006**

**Findings and/or Violations:**

Hurricane Damage Impact Audit – Plant was under 3 to 4 ft. of water. Repair was done to motors and electrical panels.

**Date – March 14, 2005**

**Findings and/or Violations:**

A Compliance Inspection revealed plant was shutdown at the time of inspection. Entergy was working on the lines in that area. No electricity along Hwy. 23, Boothville.

**B) Compliance and/or Administrative Orders**

A review of EDMS revealed that there are no recent enforcement actions administered against this facility. However, there was a Consolidated Compliance Order & Notice of Potential Penalty WE-CN-05-0218 issued August 26, 2005. Rescission of Consolidated Compliance Order & Notice of Potential Penalty WE-CN-05-0218 was issued on December 20, 2005 due to Hurricane Katrina.

**C) DMR Review**

A review of the discharge monitoring reports for the period beginning January 1, 2005 through December 31, 2007 has revealed the following violations:

<u>Effluent Characteristic</u>	<u>Number of Violations</u>
BOD <sub>5</sub> - (concentration)	0
BOD <sub>5</sub> - (mass)	3
TSS - (concentration)	0
TSS - (mass)	4
Fecal Coliform	0
pH	0

**NOTE:** The plant was closed due to Hurricane Katrina from August, 2005 until November, 2006. After the plant reopened, there was 1 mass violation for BOD and 1 mass violation for TSS.

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## **XII. ADDITIONAL INFORMATION:**

**Final effluent loadings** (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.5 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ gal/lb} \times 0.5 \text{ MGD} \times 30 \text{ mg/l} = 125 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.5 and 1.0 MGD.

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow	Continuous	Recorder
BOD <sub>5</sub>	1/week	3 Hr. Composite
Total Suspended Solids	1/week	3 Hr. Composite
Fecal Coliform Bacteria	1/week	Grab
pH	1/week	Grab

### **Pollution Prevention Requirements**

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. Please make additional copies to be utilized for each year of this permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

<b>Audit Period Begins</b>	<b>Audit Period Ends</b>	<b>Audit Report Completion Date</b>
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

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**XIII. TENTATIVE DETERMINATION:**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

**XIV. REFERENCES:**

Louisiana Water Quality Management Plan, Vol. 10, "Wasteload Allocations and Discharger Inventory", Louisiana Department of Environmental Quality, 1992.

Louisiana Water Quality Management Plan, Vol. 5-B, "Water Quality Inventory", Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards", Louisiana Department of Environmental Quality, 1999.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 23 - "The LPDES Program", Louisiana Department of Environmental Quality, 1999.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Plaquemines Parish Government, Boothville Wastewater Treatment Plant, June 15, 2007.